17/09/2009 Page 1

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L4
            2 L3
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L4
     ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
GΙ
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
     Title compds. [I; X = CHR2, CHR2A; A = (un)substituted alkylene,
AΒ
     alkenylene; Y = a bond, C(:0), C(:S), SO2, COO, CONH and derivs., etc.;
     R1, R' = independently H, (un) substituted alk(en)yl, aryl, etc.; RA, RB =
     independently H, halo, alk(en)yl, alkoxy, alkylthio, NH2 and derivs.; or
     RACCRB = (un)substituted fused hetero/aryl, fused 5- to 7-membered saturated
     ring; R'' = H, non-interfering substituent; and their pharmaceutically
     acceptable salts], were prepared as immunomodulators for inducing cytokine
     biosynthesis in animals and in the treatment of diseases including viral
     and neoplastic diseases. For example, reacting
     1-[3-(aminooxy)propyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine (preparation
     given) with cyclopropanecarbonyl chloride gave title compound II (m.p. =
     103-105°). Thus, induced interferon and tumor necrosis factor in
     human cells (no data).
     2005:177837 CAPLUS
ΑN
DN
    142:280205
    Preparation of hydroxylamine substituted imidazo-containing compounds as
TΙ
     inducers of cytokine biosynthesis for treatment of viral and neoplastic
     disease
ΙN
     Kshirsagar, Tushar A.; Amos, David T.; Dellaria, Joseph F., Jr.; Heppner,
     Philip D.; Langer, Scott E.; Zimmermann, Bernhard M.
     3M Innovative Properties Company, USA
PA
SO
    PCT Int. Appl., 254 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 2
    PATENT NO.
                  KIND DATE APPLICATION NO. DATE

      WO 2005018556
      A2
      20050303
      WO 2004-US26158

      WO 2005018556
      A3
      20050929

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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
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A1 20050303 AU 2004-266658 20040812

SN, TD, TG

AU 2004266658

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                                                                 20040812
                              20060510
                                         EP 2004-780922
    EP 1653955
                        Α2
                                                                 20040812
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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    US 2003-494608P
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                               20030812
    WO 2004-US26158
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                              20040812
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

CASREACT 142:280205; MARPAT 142:280205 OS

ΙT 1044643-63-1

RL: PRPH (Prophetic)

(Preparation of hydroxylamine substituted imidazo-containing compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)

RN 1044643-63-1 CAPLUS

Cyclopropanecarboxamide, N-[4-[4-amino-2-(ethoxymethyl)-6,7,8,9-tetrahydro-CN 1H-imidazo[4,5-c]quinolin-1-yl]butoxy]- (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AΒ Title compds. [I; X = CHR2A; A = alkylene, alkenylene optionally interrupted by one or more O; R1, R' = independently H, (un)substituted 17/09/2009 Page 3

alk(en)yl, hetero/aryl, hetero/arylalkylenyl, heterocyclyl, heterocyclylalkylenyl, etc.; RA, RB = independently H, halo, alk(en)yl, alkoxy, alkylthio, NH2 and derivs.; or RACCRB = (un)substituted fused hetero/aryl, fused 5- to 7-membered saturated ring; R'' = H, non-interfering substituent; and their pharmaceutically acceptable salts], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. Thus, reacting 4-fluorobenzaldehyde with 1-[3-(aminooxy)propyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine (preparation given) in MeOH gave oxime II. I induced interferon and tumor necrosis factor in human cells (no data). ΑN 2005:177833 CAPLUS 142:280204 DN Preparation of oxime substituted imidazo-containing compounds as inducers TIof cytokine biosynthesis for treatment of viral and neoplastic disease Kshirsagar, Tushar; Amos, David T.; Dellaria, Joseph F., Jr.; Heppner, ΙN Philip D.; Langer, Scott E.; Zimmermann, Bernhard M. 3M Innovative Properties Company, USA PASO PCT Int. Appl., 348 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 2 PATENT NO. KIND DATE APPLICATION NO. DATE ----

 WO 2005018551
 A2
 20050303

 WO 2005018551
 A3
 20060511

 PΙ WO 2004-US26065 20040812 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20040812 AU 2004266641 Α1 20050303 AU 2004-266641 CA 2535117 A1 20050303 CA 2004-2535117 20040812 EP 1653914 A2 20060510 EP 2004-780839 20040812 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR BR 2004012902 A 20060926 BR 2004-12902 20040812 Τ JP 2006-523340 JP 2007502288 20070208 20040812 CN 2004-80023366 20040812 US 2006-595065 20060126 MX 2006-1669 20060210 IN 2006-CN516 20060210 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT CASREACT 142:280204; MARPAT 142:280204 ΙT 1044345-64-3 RL: PRPH (Prophetic)

17/09/2009 Page 4

(Preparation of oxime substituted imidazo-containing compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)

RN 1044345-64-3 CAPLUS

CN Formaldehyde, O-[3-[4-amino-7-(3-pyridinyl)-1H-imidazo[4,5-c]quinolin-1-yl]propyl]oxime (CA INDEX NAME)

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT